

ABSTRACT OF THE DISCLOSURE

A miniature appliance leakage current interrupter (ALCI) interrupts the flow of current through a pair of lines extending between a source of power and a load. The ALCI comprises a circuit breaker having a pair of normally closed switches, one switch being located in each of the pair of lines between the source of power and the load. The circuit breaker is connected to a relay circuit which selectively opens the pair of normally closed switches. The relay circuit is connected to a fault detection circuit which detects the presence of a ground fault condition in the pair of lines. When the ground fault condition detected exceeds a predetermined value, an integrated circuit chip in the fault detection circuit causes the relay circuit to open the circuit breaker. The ALCI further includes a single-sided circuit board which is housed within a generally rectangular plug. The circuit board has a first side and a second side, the second side having a pattern of conductive paths. The circuit components of the ALCI are mounted on the circuit board with the integrated circuit of the fault detection circuit surface mounted on the second side.

08837739-042297